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(21) International Application Number: PCT/JP00/00018 (22) International Filing Date: 6 January 2000 (06.01.00) (30) Priority Data: PP 8068 7 January 1999 (07.01.99) AU PQ 1702 19 July 1999 (19.07.99) AU (71) Applicant (for all designated States except US): FUJII-SAWA PHARMACEUTICAL CO., LTD. [JP/JP]; 4-7, Doshomachi 3-chome, Chuo-ku, Osaka-shi, Osaka 541-8514 (JP). (72) Inventors; and (75) Inventors/Applicants (for US only): TANIGUCHI, Kiyoshi [JP/JP]; 2-1-28, Minamiochiai, Suma-ku, Kobe-shi, Hyogo 654-0153 (JP). NEYA, Masahiro [JP/JP]; 4016-25, Hitana, Tsuchiura-shi, Ibaraki 300-0065 (JP). TERA-SAWA, Takeshi [JP/JP]; 3-10-11, Ibukino, Izumi-shi, Osaka 594-0041 (JP). YAMAZAKI, Hitoshi [JP/JP]; 4-3-4, Matsushiro, Tsukuba-shi, Ibaraki 305-0035 (JP). SATO, Kentaro [JP/JP]; 2-25-10-202, Matsushiro, Tsukuba-shi, Ibaraki 305-0035 (JP). HOSOI, Kumi [JP/JP]; 91-2-A-305, Futatsuya, Susono-shi, Shizuoka, 410-1128 (JP). TOMISHIMA, Yasuyo [JP/JP];		5-5-24-706, Toyosaki, Kita-ku, Osaka-shi, Osaka 531-0072 (JP). YOSHIDA, Noriko [JP/JP]; 2-23-4-408, Matsushiro, Tsukuba-shi, Ibaraki 305-0035 (JP). IMA-MURA, Yoshimasa [JP/JP]; 2-25-10-208, Matsushiro, Tsukuba-shi, Ibaraki 305-0035 (JP). TAKASUGI, Hisashi [JP/JP]; 3-116-10, Mozu Umekita, Sakai-shi, Osaka 591-8031 (JP). SETOI, Hiroyuki [JP/JP]; 4-13-1, Namiki, Tsukuba-shi, Ibaraki 305-0044 (JP). (74) Agent: TABUSHI, Eiji; Fujisawa Pharmaceutical Co., Ltd., Osaka Factory, 1-6, Kashima 2-chome, Yodogawa-ku, Osaka-shi, Osaka 532-8514 (JP). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: CYCLIC COMPOUND <div style="text-align: center;"> <p style="text-align: center;"> $R^1-X-Ar-(CH_2)_m \begin{array}{c} \diagup \quad \diagdown \\ Y \quad Z \\ \diagdown \quad \diagup \end{array} (CH_2)_n-R^2 \quad (I)$ </p> </div> (57) Abstract <p>A compound of formula (I) in which R¹ is lower alkyl, halogen, optionally substituted heterocyclic group or optionally substituted aryl, R² is carboxy, protected carboxy or amidated carboxy, Ar is optionally substituted aryl or optionally substituted heterocyclic group, A is lower alkylene, X is oxa or a single bond, Y is thia, sulfinyl or sulfonyl, Z is methylene, thia, sulfinyl or sulfonyl, m and n are each an integer of 0 to 6, and 1 ≤ m + n ≤ 6, or its salt, which is useful as an inhibitor of matrix metalloproteinases (MMP) or tumor necrosis factor α (TNF α).</p>		